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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/722,950 | 11/27/2000 | Richard E. Smalley | 11321-P002D1 | 5035 |
| 47744 7590 03/19/2007 ROSS SPENCER GARSSON WINSTEAD SECHREST & MINICK P.C. P. O. BOX 50784 DALLAS, TX 75201 | | | EXAMINER | |
| | | | COLE, ELIZABETH M | |
| | | | ART UNIT | PAPER NUMBER |
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| SHORTENED STATUTOR | Y PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS | | 03/19/2007 | PAPER | |

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| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Exhibition for interring to ambidite under the provision of 30° CR1 130°B, in no event, however, may a regive be interly field. If NO period for regly is specified above, the maximum statistory period will apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallules to recyve which the aid or extended period for regival till, by a statistic production of the communication, even if limiting date of this communication. Fallules to recyve which the side of extended period for regival will, by statistic case the application to become ARAMONDED, 23 U.S. C. § 1130; extended patient term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on | | Application No. | Applicant(s) | | | | |
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| Elizabeth M. Cole 1771 | Office Action Summers | 09/722,950 | SMALLEY ET AL. | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Editorization for item may be available under the provision of 37 CFR 1 13(6). In no event, however, may a reply be timely field If NO period for reply is specified above, the maximum statistory period will apply and will expire SIX (6) MONTHS from the making date of this communication. Failure to require within the set of extended period for reply will by statistic, gase the application to become ABANDONE (34 U.S. C. § 133). Are presented in the Size than the making date of the communication, even if timely fried, may reduce any seminary part is time adjustment. See 37 CFR 1-13(9). Status Status 1 Responsive to communication(s) filled on | Office Action Summary | Examiner | Art Unit | | | | |
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| WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 30°CF1 1360°L, in ne event, however, may a reply be timely field after SX (6) MCNTISS from the mailing date of this communication. Failute for reply which the set of certained period for reply will by statuse, cause the application become NAIMONEON GLS U.S. C. § 1330. Any very received by the Office later than three months after the mailing date of this communication. even if fimely field, may reduce any cause platelli term deplatment. See 37 CFR 1.794(b). Status 1) | The MAILING DATE of this communication ap Period for Reply | pears on the cover sheet with the | correspondence address | | | | |
| 1) Responsive to communication(s) filed on | WHICHEVER IS LONGER, FROM THE MAILING DESTRUCTION Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing | DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fror e, cause the application to become ABANDON | N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133). | | | | |
| 2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 35-44,46,47,50 and 51 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6 Claim(s) is/are allowed. 6 Claim(s) is/are objected to. 8 Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No See the attached detailed Office action for a list of the certified copies not received. Attachment(s) **Attachment(s)** 1 Notice of References Cited (PTO-892) Application Disclosure Statement(s) (PTO-948) Some Notice of Dirabsperson's Patent Drawing Review (PTO-948) Some Notice of Informal Patent Application | Status | | | | | | |
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| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application | | 4) T Interview Summan | (PTO-413) | | | | |
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1. Claims 39 and 40 are objected to because of the following informalities: in claims 39 and 40, line 3, it appears that "?" should be "±". Appropriate correction is required.

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2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 3. Claims 35-44, 46, 47, 50-51 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-22 of U.S. Patent No. 6,969,504. Although the conflicting claims are not identical, they are not patentably distinct from each other because each discloses a material comprising a material comprising single wall carbon nanotubes wherein at least 10% are (10,10) carbon nanotubes.
- 4. Applicant's arguments filed 12/15/06 have been fully considered and are persuasive regarding the prior art rejection set forth in the previous office action. The

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claims are allowable over the prior art as set forth in the previous rejection. The primary reason for the indication of allowability is that Applicant's argument regarding the lack of motivation to combine the teachings regarding laser vaporization as taught by Curl "Collapse and Growth" with the invention disclosed in "Growth Morphologies" is persuasive. Specifically, Curl, "Collapse and Growth", teaches that increased yields of Buckminster fullerenes are produced when laser vaporization is employed. However, "Collapse and Growth" does not provide a teaching or motivation that employing laser vaporization in the invention of "Growth Morphologies" would have formed a rope comprising single wall carbon nanotubes having 50-5000 single wall carbon nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes. Further, there would not have been a reasonable expectation of success that a rope comprising single wall carbon nanotubes having 50-5000 single wall carbon nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes would be formed by employing laser vaporization in the invention of "Growth Morphologies", since "Collapse and Growth" is drawn to increasing yields of Buckminster fullerenes which are structurally different than carbon nanotube ropes. Similarly, "Collapse and Growth" does not provide a teaching or motivation that employing laser vaporization in the invention of "Growth Morphologies" would have formed a felt comprising single wall carbon nanotubes wherein the single wall carbon nanotubes comprise ropes of single wall nanotubes. wherein greater than 10% of the single wall carbon nanotubes are (10,10) single-wall carbon nanotubes. Further, there would not have been a reasonable expectation of success that a felt comprising single wall carbon nanotubes wherein the single wall

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carbon nanotubes comprise ropes of single wall nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes would be formed by employing laser vaporization in the invention of "Growth Morphologies", since "Collapse and Growth" is drawn to increasing yields of Buckminster fullerenes which are structurally different than carbon nanotube ropes and felts comprising such ropes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The fax number for all official faxes is (571) 273-8300.

Elizabeth M. Cole Primary Examiner Art Unit 1771

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